
 Substitute Form PTO-1449  
 (Modified)

 U.S. Department of Commerce  
 Patent and Trademark Office

 Attorney's Docket No.  
 07844-637001

 Application No.  
 10/816,587

**Information Disclosure Statement  
 by Applicant**

(Use several sheets if necessary)

 Applicant  
 Arnold, et al.

 Filing Date  
 March 31, 2004

 Group Art Unit  
 2672

**U.S. Patent Documents**

Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate
JJC	AA	4200861	4/1980	Hubach et al			
JJC	AB	6377262	4/2002	Hitchcock, et al			
JJC	AC	6384839	5/2002	Paul, Steven William			
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

**Foreign Patent Documents or Published Foreign Patent Applications**

Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation	
							Yes	No
	AL	69622961.7	08/14/02	Germany				X
	AM							
	AN							
	AO							
	AP							

**Other Documents (include Author, Title, Date, and Place of Publication)**

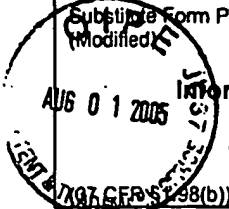
Examiner Initial	Desig. ID	Document
JJC	AQ	Foley et al.; "Computer Graphics Principles and Practice -- Second Edition"; Addison-Wesley Publishing Company; 1990; pp. 584-586, 589-590, 599-600 and 693-695
JJC	AR	SMPTE 170M-1999, SMPTE Standard for Television, "Composite Analog Video Signal - NTSC for Studio Applications," The Society of Motion Picture and Television Engineers
	AS	
	AT	

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Date Considered

12-21-05

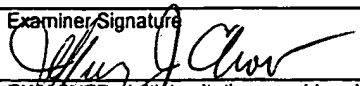
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U.S. Patent Documents							
Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate
JLC	AA	4,780,711	10/1988	Doumas	}	}	
JLC	AB	5,857,067	01/1999	Hassett, et al.			
JLC	AC	6,236,390	05/2001	Hitchcock			
JLC	AD	2004/0227770	11/18/04	Dowling, et al.			
JLC	AE	2004/0227771	11/18/04	Arnold, et al.			
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JLC	AL	2004/104937	12/01/04	PCT	}	}	X	
JLC	AM	2004/104933	12/02/04	PCT			X	
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	AO							
	AP							

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Sheet 1 of 1

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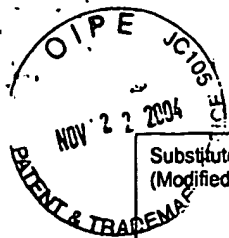
U.S. Patent Documents							
Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate
JJC	AA	5684510	11/04/97	Brassell et al.			
JJC	AB	6104833	08/15/00	Naoi et al.			
JJC	AC	6438576	08/20/02	Huang et al.			
JJC	AD	6614432	09/02/03	Merrill			
JJC	AE	2003/0214513	11/20/03	Brown et al.			
JJC	AF	2004/0001069	01/2004	Snyder et al.			
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	AH						
	AI						
	AJ						
	AK						

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Substitute Disclosure Form (PTO-1449)

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Arnold, et al.Filing Date  
March 31, 2004Group Art Unit  
2672

(37 CFR §1.98(b))

**U.S. Patent Documents**

Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate
JTC	AA	4331955	05/25/82	Hansen			
JTC	AB	4486785	12/04/84	Lasher et al.			
JTC	AC	4580231	04/01/86	Tidd et al.			
JTC	AD	4591844	05/27/86	Hickin et al.			
JTC	AE	4667247	05/19/87	Karow			
JTC	AF	4672369	06/09/87	Preiss et al.			
JTC	AG	4675830	06/23/87	Hawkins			
JTC	AH	4720705	01/19/88	Gupta et al.			
JTC	AI	4783652	11/08/88	Lumelsky			
JTC	AJ	4827255	05/02/89	Ishii			
JTC	AK	4851825	07/25/89	Naiman			
JTC	AL	4907282	03/06/90	Daly, et al.			
JTC	AM	4908780	03/13/90	Priem, et al.			
JTC	AN	4945351	07/31/90	Naiman			
JTC	AO	5099435	03/24/92	Collins, et al.			
JTC	AP	5132674	07/21/92	Botdorf			
JTC	AQ	5241653	08/31/93	Collins, et al.			
JTC	AR	5278678	01/11/94	Harrington			
JTC	AS	5299308	03/1994	Suzuki et al.			
JTC	AT	5301267	04/05/94	Hassett, et al.			
JTC	AU	5386509	01/31/95	Suzuki, et al.			
JTC	AV	5398306	03/14/95	Karow			
JTC	AW	5459828	10/17/95	Zack et al			
JTC	AX	5544294	08/1996	Cho et al.			
JTC	AY	5568597	10/22/96	Nakayama et al			
JTC	AZ	5771048	06/23/98	Nankou et al			
JTC	AAA	5910805	06/08/99	Hickey et al.			

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JTC	ABB	5929866	07/27/99	Arnold			
JTC	ACC	5940080	08/17/99	Ruehle et al.			
JTC	ADD	5943063	08/24/99	Dowling			
JTC	AEE	6282327	08/28/01	Betrissey et al.			
JTC	AFF	6342890	01/29/02	Shetter			
JTC	AGG	6356278	03/12/02	Stamm et al.			
JTC	AHH	6563502	05/13/03	Dowling et al.			
JTC	AII	2001/0048764 A1	12/06/01	Betrissey et al.			
JTC	AJJ	2002/0093476 A1	07/18/02	Hill et al.			

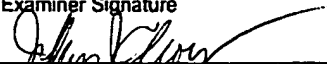
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JTC	AKK	86/04703	08/14/86	PCT				
JTC	ALL	94/06094	03/17/94	PCT				
JTC	AMM	94/29843	12/22/94	PCT				
JTC	ANN	00/52673	09/08/2000	PCT				
JTC	AOO	0 214 547	03/18/87	EP				
JTC	APP	0 304 509	06/16/93	EP				
JTC	AQQ	0 397 299	11/14/90	EP				
JTC	ARR	0 428 356	05/22/91	EP				
JTC	ASS	0 435 391	07/03/91	EP				
JTC	ATT	0 468 652	01/29/92	EP				
JTC	AUU	0 506 381	09/30/92	EP				
JTC	AVV	0 590 923	04/1994	EP				
JTC	AWW	0 654 778	05/24/95	EP				
	<del>AXX</del>	<del>0 667 596</del>	<del>08/16/93</del>	<del>EP</del>				

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JJC	AYY	0 693 740	01/24/96	EP				
JJC	AZZ	0 772 144	05/07/97	EP				
JJC	AAAA	1 077 445	02/21/01	EP				
JJC	ABBB	2 236 463	04/1991	GB				
JJC	ACCC	900039606	10/30/91	JP			Abstr.	

Other Documents (include Author, Title, Date, and Place of Publication)		
Examiner Initial	Desig. ID	Document
JJC	ADDD	Foley et al.; "Computer Graphics Principles and Practice -- Second Edition"; Addison-Wesley Publishing Company; 1990; pp. 132-140, pp. 617-646, and pp. 965-979.
JJC	AEEE	"gasp - Grid-fitting And Scan-conversion Procedure", <a href="http://www.microsoft.com/typography/otspec/gast.htm">http://www.microsoft.com/typography/otspec/gast.htm</a> , 1998, 2 pages
JJC	AFFF	"The TrueType instruction set", <a href="http://www.microsoft.com/typography/otspec/ttinst.htm">http://www.microsoft.com/typography/otspec/ttinst.htm</a> , 1997, Cover sheet (1 page); pp. 181-261
JJC	AGGG	Platt, John C., Optimal Filtering for Patterned Displays, Microsoft Research, IEEE Signal Processing Letters, Vol. 7, No. 7, pp. 179-80 (2000)
JJC	AHHH	Betrissey, et al., 20.4: Displaced Filtering for Patterned Displays, SID 00 Digest, 4 pages
JJC	AIII	Microsoft Corporation, What is ClearType? [online], page last updated January 16, 2002, <a href="http://www.microsoft.com/typography/cleartype/what.htm?frame=%208fsize">www.microsoft.com/typography/cleartype/what.htm?frame=%208fsize</a>
JJC	AJJJ	Microsoft Corporation, Microsoft ClearType FAQ [online], page last updated September 26, 2002, <a href="http://www.microsoft.com/typography/faq/faq15.htm">http://www.microsoft.com/typography/faq/faq15.htm</a>
JJC	AKKK	Microsoft Corporation, ClearType Antialiasing, 2003 [online], <a href="http://msdn.microsoft.com/library/default.asp?url=/library/en-us/gdi/fonttext-osgn.asp">http://msdn.microsoft.com/library/default.asp?url=/library/en-us/gdi/fonttext-osgn.asp</a>
	<del>ALLL</del>	<del>Sub-Pixel Font Rendering Technology - Implementation Details, last edit on December 8, 1999, [online], <a href="http://grc.com/cttech.htm">http://grc.com/cttech.htm</a></del>
	<del>AMMM</del>	<del>Sub-Pixel Font Rendering Technology - Who Did It First? [online], last edit on February 29, 2000, <a href="http://grc.com/ctwho.htm">http://grc.com/ctwho.htm</a></del>
	<del>ANNN</del>	<del>Sub-Pixel Font Rendering Technology - Visitor Dialog Q&amp;A [online] last edit October 4, 2003, <a href="http://grc.com/ctdialog.htm">http://grc.com/ctdialog.htm</a></del>
	<del>AOOO</del>	<del>Sub-Pixel Font Rendering Technology - How It Works [online], last edit on February 11, 2002, <a href="http://grc.com/ctwhat.htm">http://grc.com/ctwhat.htm</a></del>

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